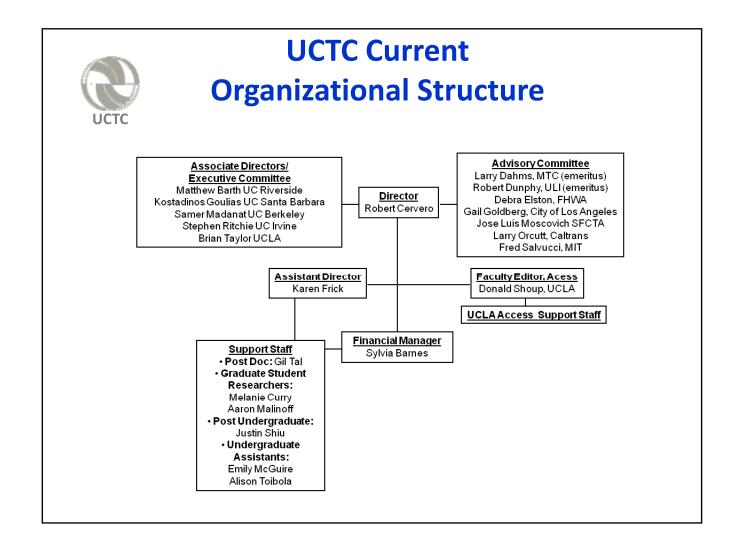


UCTC Strategic Plan 2007-2009

Approved February 2009





UCTC

UCTC Advisory Committee



José Luis Moscovich, SFCTA



Gail Goldberg, City of Los Angeles



Larry Orcutt, Caltrans



Debra Elston, FHWA



Larry Dahms, MTC (emeritus)



Fred Salvucci, MIT

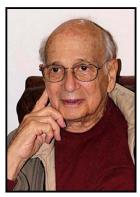


Robert Dunphy, ULI (emeritus)



UCTC Directors

1988 - 1995	Yr 1-8	Melvin Webber City & Regional Planning, UC			
1995-1999	Yr 9-12	Martin Wachs	City & Regional Planning & Civil Engineering, UCB		
1999-2009	Yr 9-21	Elizabeth Deakin	City & Regional Planning, UCB		
2009-present	Yr 22	Robert Cervero	City & Regional Planning, UCB		











Partnerships

 UTC Center Directors-Caltrans Committee (UCTC, Mineta, Metrans, Leonard, Davis)

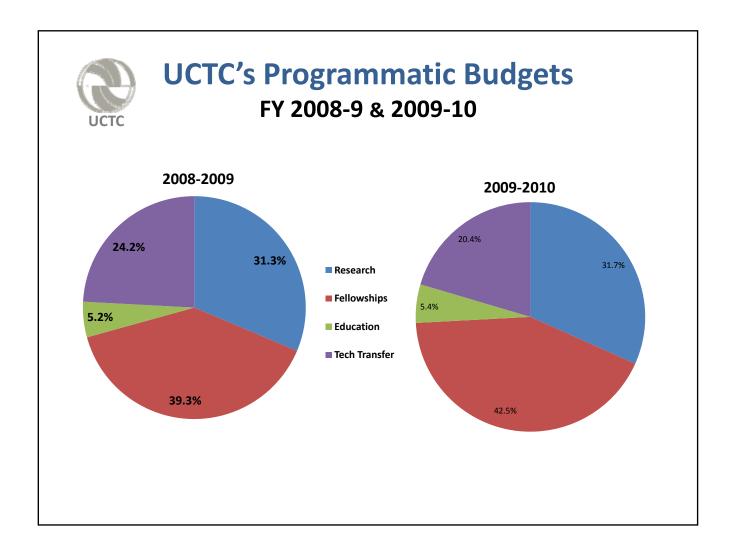
UC Berkeley	ITS (Institute of Transportation Studies); PATH (Partners for Advanced Transit & Highways); CCIT (California Center for Innovative Transportation); NEXTOR (National Center of Excellence for Aviation Research; PRC (Pavement Research Center); TSC (Traffic Safety Center); BCFUT (Berkeley Center for Future Urban Transport – Volvo Foundation); CST (Center for Sustainable Transport); IURD (Institute of Urban and Regional Development); GMSC (Global Metropolitan Studies Center); CSC (Center for a Sustainable California)
UC Irvine	ITS (Institute of Transportation Studies); PATH (Partners for Advanced Transit & Highways) – Advanced Testbed Research Program; Advanced Transportation Management
UCLA	ITS (Institute of Transportation Studies); LCRPS (Lewis Center for Regional Policy Studies)
UC Riverside	CE-CERT (Center for Environmental Research and Technology)
UC Santa Barbara	CSISS (Center for Spatially Integrated Social Sciences); NCRST (National Consortium for Remote Sensing in Transportation)



Cooperative Work with Other UTCs

- Co-participation with Regional UTCs in developing a *Transportation Leadership Graduate Certificate* on "Transportation Policy, Management, and Operation"
- Educational Partner with University of New Orleans's Center for Evacuation and Transportation Resiliency: National Evacuation Conference, February 2010.







UCTC Theme & Vision

THEME:

Transportation Systems Analysis and Policy

- Multi-disciplinary
- Intermodal Transport, including surface passenger & freight topics and issues

VISION:

"Excellence in Transportation Education & Research by fostering the development of a vibrant network of Transportation Professionals who put their education and research findings into practice"



UCTC Research

Priority Areas:

- Reforming Local Government Transportation and Land Use Practices
- New Urban Designs for Multimodal Transportation
- Improving Traffic Surveillance, Data Collection and Processing, Modeling, and Operations
- Alternative Strategies for Managing Congestion
- Planning for Security in Urban Transportation
- Improving Transit Operations and Encouraging Transit Use
- Transportation Air Quality, Energy and Climate Change Concerns
- Protecting and Enhancing the Built and Natural Environment
- Transportation Asset Management
- New Strategies for Transportation Finance
- Understanding Travel Behavior
- Improved Methods of Goods Movement
- New Institutional Arrangements for Effective Transport Delivery
- Improved Response to the Transportation Needs of Diverse Populations



UCTC Research

New Areas Recommended by Advisory Committee (meeting on Sept. 14, 2009):

- Reducing the disconnect between Transportation Systems
 Analysis, Policy-making, and Practice
- Retrospective analysis on the impacts of large-scale Transportation Infrastructure [...BART, Port Expansions, HOT lane networks)... to inform design and practice of future mega-projects (e.g., HSR)]
- Strategies and methods for improving the communication of research results



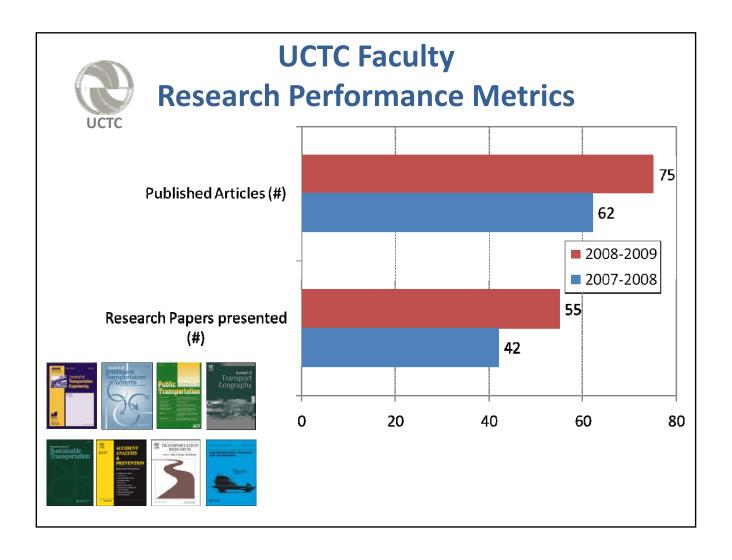
UCTC Research Solicitation & Review Process

Solicitation:

- Annual Call...due March 1
- 10-page proposals from faculty on all UC campuses: objectives, methods & data, tasks, budget, schedule/milestones

Review Process:

- Blind external reviews...≥ 3 more reviewers; FY2009-10 (131 reviewers or 5.7 per proposal)
- Proposals rated, ranked, and selected by Director with input from Caltrans DRI





Human Resources Other UCTC Faculty Support

- Start-Up Grants for New Transportation Faculty
- Help with Faculty Recruitment Efforts
- Extra summer support to Assistant Professors conducting transportation research
- Support of faculty-led workshops and symposia
- Support, market, and promote new transportation courses



Joan Walker, CEE UCB



Dan Chatman, Planning UCB



Wenlong Jin, CEE UCI



Doug Houston, Planning UCI



Rui Wang, Planning UCLA



Education

Transportation Degree Programs at UCTC Campuses

	Civil Engineering	City Planning/ Public Policy	Economics	Geography	Joint C.E./City Planning
UC Berkeley	*	*			*
UC Irvine	*	*	*		
UCLA		*			
UC Riverside	*				
UC Santa Barbara				*	



Tradition of Excellence

- Geography: phds.org: UCSB #1 of the "large, prestigious" Geography programs in the USA
- Civil Engineering: UC Berkeley: #1, US News & World Report, 2009; growing recognition of programs at Irvine & Riverside as well
- Transportation Planning: UC Berkeley & UCLA, Top 2 ranked programs, Planetizen 2009 Guide to Graduate Urban Planning Programs



Student Support

- GSRs average 35-50 per year at 25%-50% time;
 covers fees and Non-Resident Tuition
- UCTC Fellowships -- university fees & living expenses; nominate by departments on basis of grades, test scores, letters of recommendation, and accomplishments
- **Dissertation Grants** 10 per year (\$15K; plan to increase to \$20K and possibly higher); 155 filed
- Travel Grants Attend and present at TRB and other conferences (including California UTC & UCTC Student conference)



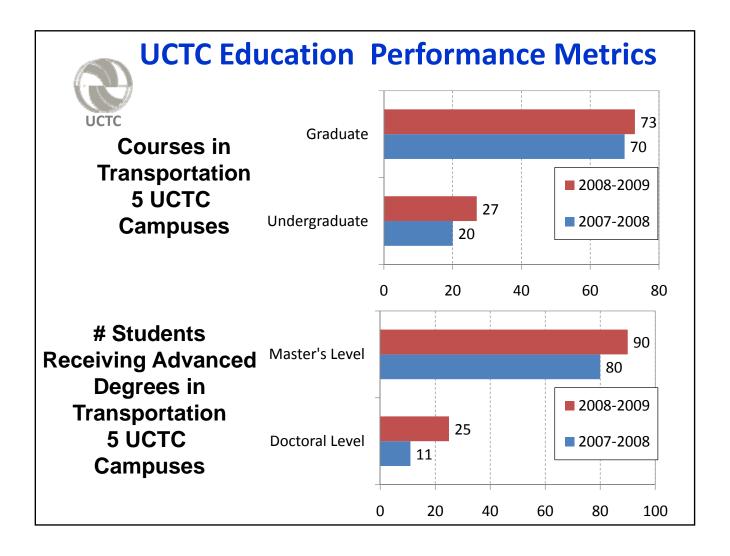
UCTC Student of the Year Award

- Each Year, UCTC affiliated faculty nominate and vote on a Student of the Year
- \$1000 plus expenses to attend the award ceremony held at TRB in January



2008-2009 Recipient: Doug Houston, PhD in urban planning from UCLA; faculty member in urban planning at UC Irvine.

Dissertation: The near-roadway air pollution impacts of goods movement and transportation corridors. This work drew from field and health studies to study the health effects and environmental justice implications of vehicle exhaust, especially from diesel trucks, showing they are often highly concentrated immediately downwind of major roadways.





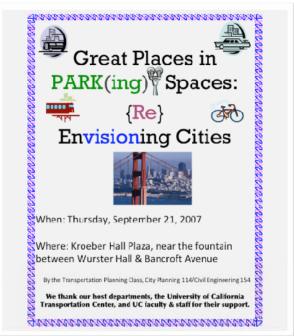
UCTC Strategic Plan Policy Undergraduate Education

 "In reviewing educational accomplishments over the past decade, the UCTC Executive Committee concluded that educational initiatives that will further expand our outreach to undergraduates should receive more attention". (p. 15)



Enhancing Undergraduate Education









"Experiencing overjoyment... priceless"

(photo: K. Frick)



Key Questions

- 1) What additional skills would benefit undergraduates? What would they like to learn?
- 2) How would they like to learn?
- 3) How can we phase in a lower cost, sustainable educational options across the UCTC campuses?



What We've Done in FY2009-10 So Far

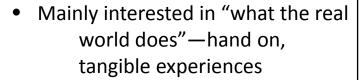
- Focus groups with 35
 Berkeley students,
 diverse cross section
- Discussions with UCTC faculty (will continue with exec board tomorrow)
- UCLA goods movement & logistics course, Spring 09
- Mentor to 14 undergrads in city planning course



Special thanks to Justin Shiu, our first "post undergraduate"



Take-away # 1 – Skills & Interests





- Would like to go in-depth on planning, engineering (research)
- Need to improve oral and writing skills, esp for policy settings
- Advice on jobs, graduate school
- Receive course credit

Take-away # 2 – Develop New Initiative

"Center for Undergraduate Innovation"

- Multi-campus, tailored to needs of campus, phased in. Could include:
 - summer internship with a UCTC associate director (modeled after USDOT STPDG)
 - attendance at California UTC and UCTC student conferences (fee waiver or discount)
 - post undergraduate papers on UCTC website
 - info on grad school & internships, mentorships, scholarships



Potentially at individual campuses

- 1 to 2 week intersession course*
- 1 to 2 unit course during term*
- Traveling colloquium (field trips/site visits to projects & offices to see the real world)
- Lecture series with practitioners



* Students suggest real world project with client or special topics



Studio Course—client based, hands on—like a mini public dept or consulting firm



Undergraduate studio

if grad. studio: undergraduates could enroll

Juju Wang as undergraduate in grad. studio, currently a grad student



Next Steps

Discuss & develop action plan with exec committee

Additional outreach at other campuses, discuss with academic advisors

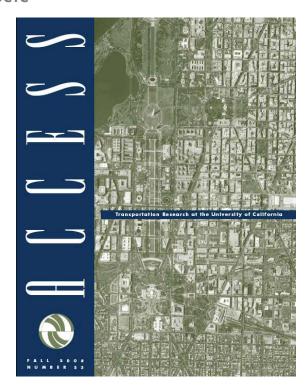
Spring graduate studio at
Berkeley—encourage
undergraduate enrollment,
particularly from current set
of advisees this semester



(photo: K. Frick)



Technology Transfer & Assistance



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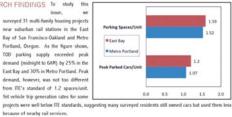
Additional 15,000 readers download access



UCTC Policy Brief Series

ARE TODS OVER-PARKED?1 Robert Cervero, Arlie Adkins, and Cathleen Sullivan ISSUE Many apartment projects near urban rail stations, critics charge, are "over-parked" - more parking is provided costs such as water pollution from enlarged impervious surfaces. parking generation figures from the Institute of Transportation Engineers (ITE). ITE standards assume that car ownership levels and parking demands are no different in traditional suburban settings than in neighborhoods that are served by rail transit. Yet some studies suggest that those drawn to living near urban rail stops do so for lifestyle reasons, prompting many not only to ride transit more often but also to get rid of a car.

RESEARCH FINDINGS To study this surveyed 31 multi-family housing projects near suburban rail stations in the East Bay of San Francisco-Oakland and Metro TOD parking supply exceeded peak demand (midnight to GAM) by 25% in the East Bay and 30% in Metro Portland. Peak demand, however, was not too different



Our research also showed that size and distance matter. In general, peak parking levels were highest for large-scale apartment projects with generous amounts of parking per unit and that were farthest from the nearest station. For every 1000 feet walking distance that a project lies from a station, we estimated, peak parking increased by 0.7 cars per dwelling unit. Case study work also showed that apartments served by retail shops, that enjoyed direct access to station platforms, and whose shortest walking path was not too circultous tended to have

¹ Full Report: R. Cervero, A. Adkim, C. Sullivan, Am TOOs Over-parked?, UCTC Research Exper 852, 2005. http://www.actc.aud/maners/862.mll





NATIONAL SURVEY if their communities adjusted parking ordinances to account for transit's proximity. 35% of rail-served cities allowed lower off-street parking rates for parcels near transit, ranging from 10% to 60% fewer spaces. Also, 37% of respondents felt that their city's minimum off-street parking requirements were too high for housing near rall stops. However, 85% felt that local elected officials would strongly oppose efforts to eliminate minimum parking requirements even if a project is near a rail station.

RECOMMENDATIONS lust as land-use environments vary throughout suburban America, so should parking policies. Parking ordinances should be more flezible for projects situated near rail stop Based on our research, for example, developers of relatively dense apartments with adjoining retail shops and short, direct walking connections to rail stations should have the option of supplying fewer parking spaces than the norm. Flezibility might also take the form of unbundling the cost of parking from the cost of renting hour or providing residents with the option of choosing transit eco-passes rather than paying for an on-site space. And in light of the fact that TOD residents were found to commute by transit proportionately more than they shed cars or reduced parking, car-sharing should be provided in as many rail-served neighborhoods as possible. Putting shared-cars in and around TOOs could relieve many households from owning a second car or a vehicle altogether, which would result in not only considerably lower trip generation rates, but considerably less parking demand as





UCTC Supported Speaker Series Growing Sustainably in a Low-Carbon World A Pro-active Response to SB375



Digitized Slide Project









Student Conference—April 1 and 2, 2010 to be hosted by UC Irvine

- Approx 125 attendees
- Mel Webber Lecture
- Student and faculty presentations
- Poster session
- Rotates among the campuses





Third Annual California UTC Conference, April 27-28, 2010 at UC Davis



Keynote Speaker Gail Goldberg, City of Los Angeles, UCTC advisory committee member "Tackling Congestion in an Era of Climate Change" 200 attendees

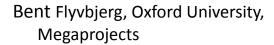
- UCTC
- UC Davis
- Metrans (USC, Cal State Long Beach)
- San Jose State, Mineta Institute
- Leonard Center, Cal State San Bernardino





Martin Wachs Distinguished Lecture

UCLA & UC Berkeley



Anthony May, Leeds University, Sustainable Transport Discussant: Gail Goldberg

Susan Hanson, Clark University Gender&Mobility Discussants: Therese McMillan&Celia Kupersmith

April 2010: Alan Altshuler, Harvard University



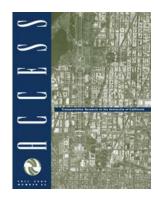






Recent & Upcoming Tech Transfer Projects

- California Strategic Transit Plan
- California Growth Project (Special Access Issues)
- Transit Best Practices





- Bridging the Gap between City Policies and Greenhouse Gas Reductions
- Transportation & Urban Development Images Project